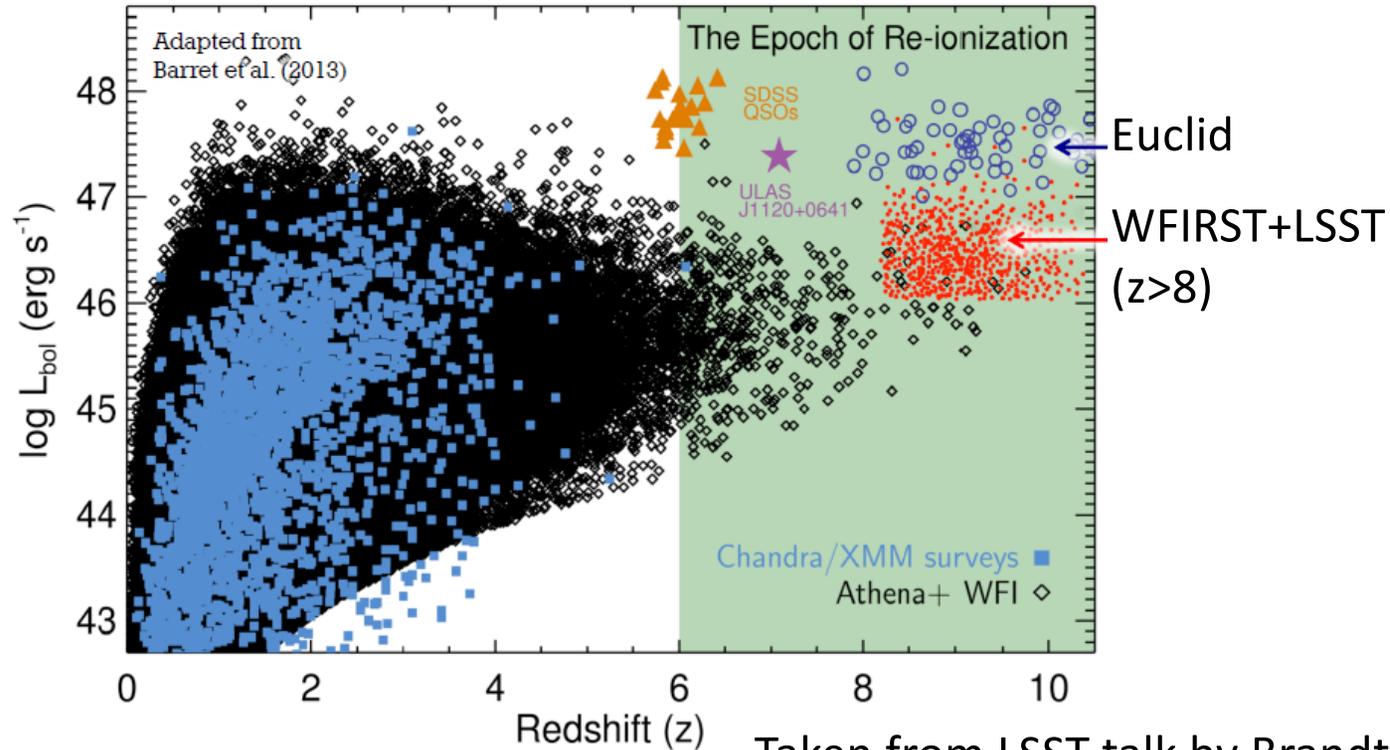


# Automated Stacking of *Athena* Data



- *Athena* will be operating in an era of very deep multiwavelength extragalactic surveys (including, e.g., SKA, not pictured above).
- 5" resolution will limit the X-ray surveys to a flux level of about  $5 \times 10^{-17}$  cgs at 0.5-2 keV (Aird et al. 2013).
- Exploring the high-energy properties of accreting SMBHs at  $z > 8$  will require stacking of *Athena* data on positions of known galaxies.
- A future *Athena* data center could produce automatic stacks based on input positions from e.g., LSST or SKA.
- Procedures will be informed from similar analysis with *NuSTAR* (whose background also includes significant emission from unresolved sources).